## AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Currently Amended) A radiological image pickup apparatus comprising:

a radiation detection section including an active matrix substrate, a radiation-sensitive semiconductor formed on the active matrix substrate, and a voltage application electrode formed on the <u>radiation-sensitive</u> semiconductor, the active matrix substrate including a charge-storage capacitor, a charge read switching element, and a pixel electrode for each unit cell with signal lines and scanning lines disposed like a lattice on the substrate; and

a cabinet for retaining said radiation detection section therein,

wherein at least a portion just above the voltage application electrode is formed of a nonconductive material in a surface lid section of said cabinet opposed to the voltage application electrode.

- 2. (Currently Amended) The radiological image pickup apparatus as claimed in claim 1, wherein any other portion, other than the nonconductive material portion in said cabinet, is formed of a conductive material.
  - 3. (Currently Amended) The radiological image pickup apparatus as claimed

in claim 1, wherein the whole-surface lid section of said cabinet is entirely formed of

a nonconductive material.

4. (Currently Amended) The radiological image pickup apparatus as claimed

in claim 3, wherein any other portion, other than the nonconductive material portion

in said cabinet, is formed of a conductive material.

5. (Currently Amended) The radiological image pickup apparatus as claimed

in any of claims 1 to 4claim 1, wherein the radiation-sensitive semiconductor and the

voltage application electrode on the active matrix substrate are molded by using an

insulating substance so as to entirely cover the whole of the radiation-sensitive

semiconductor and the voltage application electrode by with the insulating

substance, and wherein

a shield member made of a conductive material is formed so as to cover any

other-area, other than the portion just above the voltage application electrode, from

a side wall of said cabinet to a margin of the voltage application electrode.

6. (Original) The radiological image pickup apparatus as claimed in claim 5,

wherein the shield member is electrically connected to a portion formed of a

conductive material in an extension of said cabinet.

7. (Original) The radiological image pickup apparatus as claimed in claim 6,

wherein charge detection amplifiers and a gate driver connected to ends of the

signal lines and the scanning lines on the active matrix substrate are formed on the

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active matrix substrate and molded by using the insulating substance.

8. (Currently Amended) The radiological image pickup apparatus as claimed in claim 6, wherein the shield member is formed of a material selected from the group consisting of:

materials made of metal with an atom number in the range of 40 to 90; and, materials or a material whose part is the metal.

9. (New) The radiological image pickup apparatus as claimed in claim 2, wherein the radiation-sensitive semiconductor and the voltage application electrode on the active matrix substrate are molded by using an insulating substance so as to entirely cover the radiation-sensitive semiconductor and the voltage application electrode with the insulating substance, and wherein

a shield member made of a conductive material is formed so as to cover any area, other than the portion just above the voltage application electrode, from a side wall of said cabinet to a margin of the voltage application electrode.

- 10. (New) The radiological image pickup apparatus as claimed in claim 9, wherein the shield member is electrically connected to a portion formed of a conductive material in an extension of said cabinet.
- 11. (New) The radiological image pickup apparatus as claimed in claim 7, wherein charge detection amplifiers and a gate driver connected to ends of the signal lines and the scanning lines on the active matrix substrate are formed on the

active matrix substrate and molded by using the insulating substance.

12. (New) The radiological image pickup apparatus as claimed in claim 10, wherein the shield member is formed of a material selected from the group

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consisting of:

materials made of metal with an atom number in the range of 40 to 90; and,

materials whose part is the metal.

13. (New) The radiological image pickup apparatus as claimed in claim 3,

wherein the radiation-sensitive semiconductor and the voltage application electrode

on the active matrix substrate are molded by using an insulating substance so as to

entirely cover the radiation-sensitive semiconductor and the voltage application

electrode with the insulating substance, and wherein

a shield member made of a conductive material is formed so as to cover any

area, other than the portion just above the voltage application electrode, from a side

wall of said cabinet to a margin of the voltage application electrode.

14. (New) The radiological image pickup apparatus as claimed in claim 13,

wherein the shield member is electrically connected to a portion formed of a

conductive material in an extension of said cabinet.

15. (New) The radiological image pickup apparatus as claimed in claim 14,

wherein charge detection amplifiers and a gate driver connected to ends of the

signal lines and the scanning lines on the active matrix substrate are formed on the

active matrix substrate and molded by using the insulating substance.

16. (New) The radiological image pickup apparatus as claimed in claim 14, wherein the shield member is formed of a material selected from the group consisting of:

materials made of metal with an atom number in the range of 40 to 90; and, materials whose part is the metal.

17. (New) The radiological image pickup apparatus as claimed in claim 4, wherein the radiation-sensitive semiconductor and the voltage application electrode on the active matrix substrate are molded by using an insulating substance so as to entirely cover the radiation-sensitive semiconductor and the voltage application electrode with the insulating substance, and wherein

a shield member made of a conductive material is formed so as to cover any area, other than the portion just above the voltage application electrode, from a side wall of said cabinet to a margin of the voltage application electrode.

- 18. (New) The radiological image pickup apparatus as claimed in claim 17, wherein the shield member is electrically connected to a portion formed of a conductive material in an extension of said cabinet.
- 19. (New) The radiological image pickup apparatus as claimed in claim 18, wherein charge detection amplifiers and a gate driver connected to ends of the signal lines and the scanning lines on the active matrix substrate are formed on the

active matrix substrate and molded by using the insulating substance.

20. (New) The radiological image pickup apparatus as claimed in claim 19, wherein the shield member is formed of a material selected from the group consisting of:

materials made of metal with an atom number in the range of 40 to 90; and, materials whose part is the metal.